

Application No.: 10/066,990

Case No.: 57148US002

Amendments to the Claims:

The listing of claims set forth below is intended to replace the prior versions, and listings, of claims in the application. No new amendments are presented herein.

1. (Previously presented) A flame retardant article, comprising:

An expanded polymeric foam material comprising a polymer, antimony-free fire retardant, and a plurality of expanded polymeric microspheres, the foam material having an outer surface, the expanded polymeric foam material is a sheet and the outer surface comprises a first major surface and a second major surface; and

An adhesive layer formulated without fire retardant and disposed on at least a portion of one of the first or second major surfaces;

Wherein the amount of expanded polymeric microspheres is from about 0.1 parts by weight to about 20 parts by weight based on 100 parts by weight of polymer.

2. (Previously presented) An article according to claim 1 wherein the article has a foam split strength greater than about 2.64 kN/m; 90 degree peel adhesion on stainless steel of greater than about 2.64 kN/m; and static shear strength at 22°C or 70°C of at least about 10, 000 minutes.

3. (Cancelled)

4. (Previously presented) An article according to claim 1 wherein the adhesive layer is disposed on at least a portion of both the first and second major surfaces.

5. (Original) An article according to claim 1 wherein the polymeric foam material is selected from the group consisting of elastomers, rubbers, thermoplastic elastomers, rubber based and acrylic adhesives, polyolefin polymers, acrylate polymers and methacrylate polymers, acrylate and methacrylate copolymers, and combinations thereof.

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6. (Previously presented) An article according to claim 1 wherein the article has a thickness less than about 0.635 mm; and the adhesive layer comprising no greater than about 30 weight percent fire retardant based on the total weight of the adhesive layer.
7. (Original) An article according to claim 1 wherein the adhesive layer is selected from the group consisting of a copolymer of ethylhexyl acrylate and acrylic acid, a copolymer of isooctyl acrylate and acrylic acid, and a blend of an acrylic adhesive and rubber based adhesive.
8. (Original) An article according to claim 1 wherein the foam material comprises an acrylic adhesive.
9. (Original) An article according to claim 1 wherein the antimony free fire retardant is an intumescent material comprising an acid source, a char former, and a blowing agent.
10. (Original) An article according to claim 9, further comprising one or more synergists.
11. (Original) An article according to claim 10 wherein the synergists are selected from the group consisting of n-alkoxy hindered amine, tris(tribromoneopentyl)phosphate, melamine phosphate, melamine polyphosphate, boroxo siloxane elastomer, and monomeric n-alkoxyhindered amine.
12. (Original) An article according to claim 1 wherein the antimony free fire retardant is present in the foam at a concentration of between about 20 wt.% and about 60 wt.%.
13. (Original) An article according to claim 1 wherein one or both of the foam and the adhesive layer further comprises microfibers imparting stretch release properties to the article, the microfibers being selected from the group consisting of polymeric microfibers, viscoelastic microfibers, elastic microfibers, and combinations of the foregoing.

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14. (Original) An article according to claim 13 wherein the microfibers comprise semicrystalline homopolymers, copolymers, terpolymers, tetrapolymers, and combinations of the foregoing of polyalkylene resins.
15. (Original) An article according to claim 1 wherein the article will pass one or more of the following the F.A.R. § 25.853 (July 1990), 12 Second Vertical Burn Test; F.A.R. § 25.853 (July 1990), 60 Second Vertical Burn Test; UL-94 V-2 rating; ASTM E162 with maximum flame spread index of 35; ASTM E662 with maximum specific optical density for flaming and nonflaming modes of 100 maximum (1.5 minutes) and 200 maximum (4.0 minutes); and BSS 7239.
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)
23. (Previously presented) The flame retardant article of claim 1 wherein the antimony-free fire retardant is tris(bromoneopentyl)phosphate.
24. (Cancelled)

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25. (Cancelled)

26. (Cancelled)